INSTRUCTIONS

JVC

BR-S925E
BR-S920E

TIME LAPSE VIDEO CASSETTE RECORDER
MAGNETOSCOPE A CASSETTE A LAPS DE TEMPS
VHS-LANGZEIT-VIDEOREKORDER

S-VHS 625 VHS PAL

(Photo shows BR-S920E.)
(Die Abbildung zeigt BR-S920E.)
(La photo montre le BR-S920E.)

PGD30002-272

SAFETY PRECAUTIONS

Warning Notice
FOR YOUR SAFETY (Australia)

1. Insert this plug only into effectively earthed three-pin power outlet.
2. If any doubt exists regarding the earthing, consult a qualified electrician.
3. Extension cord, if used, must be three-core correctly wired.

IMPORTANT (In the United Kingdom)
Mains Supply (AC 240 V~)
WARNING - THIS APPARATUS MUST BE EARTHED

The wires in this mains lead are coloured in accordance with the following code;

GREEN-and-YELLOW:	EARTH
BLUE:	NEUTRAL
BROWN:	LINE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.
The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the safety earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or which is coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

POWER SYSTEM
Connection to the mains supply
The operating voltage of this set is preset to 220 – 240 V~ at the factory.
Before connecting to mains, check that the voltage selector on the rear panel is set to the same voltage as your local mains supply.
Adapting to local power line
This set operates on 220 – 240 V~ AC, 50/60 Hz.
If the preset voltage is different from the power line voltage in your area, reset the voltage selector by inserting a screwdriver into the slot of the voltage selector and turning it until the correct voltage is displayed.

This unit is produced to comply with Directives 76/889/EEC, 82/499/EEC, 87/308/EEC, and IEC Publ.65.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION
To prevent electric shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

Note:
The rating plate and the safety caution are on the rear of the unit.

WARNING
It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast, or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

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PRECAUTIONS

NOTE:
This instruction manual covers two video recorders: the BR-S925E and the BR-S920E. All information pertains to both units unless otherwise specified. Sections related to digital effects may be disregarded by BR-S920E users.

VCR

- Avoid using the recorder in places subject to the following conditions:
  - extreme heat, cold, or humidity,
  - dust,
  - near appliances generating strong magnetic fields,
  - vibrations, and
  - poor ventilation.
- Be careful of moisture condensation.
  Do not use the recorder immediately after moving it from a cold place to a warm place. The water vapour in warm air will condense on the still-cold video head drum and tape guides and may cause damage to the tape and the recorder.
- Handle the recorder carefully.
  - Do not block the ventilation openings.
  - Do not place anything heavy on the recorder.
  - Do not place anything which might spill on the top cover of the recorder.
  - Use in horizontal (flat) position only.
- During transportation,
  - Avoid violent shocks to the recorder during packing and transportation.
  - Before packing, be sure to remove the cassette from the recorder.

VIDEO CASSETTES

- This recorder uses S-VHS and VHS cassettes.
- For best results, use only JVC professional S tape.
- S-VHS cassettes can also be used in VHS operation.
- Avoid exposing the cassettes to direct sunlight. Keep them away from heaters.
- Avoid extreme humidity, violent vibrations or shocks, strong magnetic fields (near a motor, transformer or magnet) and dusty places.
- Place the cassettes in cassette cases and position vertically.
- Do not use tapes that are longer than the SE-180/E-180.

AVAILABLE RECORDING TIMES

- Selectable with the TIMELAPSE MODE +/– buttons.

Display	Mode	Recording time					Recording/ playback interval	Audio recording
		SE-30/E-30	SE-60/E-60	SE-90/E-90	SE-120/E-120	SE-180/E-180		
000 H	One-shot	—	—	—	—	—	Max. 3 min	No
003 H	S-VHS/ VHS SP	30 min	1 hour	1 h 30 min	2 hours	3 hours	—	Yes
006 H	S-VHS/ VHS LP	1 hour	2 hours	3 hours	4 hours	6 hours	—	
024 H	TL/24	4 hours	8 hours	12 hours	16 hours	24 hours	0.16 sec	No
048 H	TL/48	8 hours	16 hours	24 hours	32 hours	48 hours	0.32 sec	
072 H	TL/72	12 hours	24 hours	36 hours	54 hours	72 hours	0.48 sec	
120 H	TL/120	20 hours	40 hours	60 hours	90 hours	120 hours	0.8 sec	
168 H	TL/168	28 hours	56 hours	84 hours	112 hours	168 hours	1.12 sec	
240 H	TL/240	40 hours	80 hours	120 hours	180 hours	240 hours	1.6 sec	
480 H	TL/480	80 hours	160 hours	240 hours	360 hours	480 hours	3.2 sec	
960 H	TL/960	160 hours	320 hours	480 hours	720 hours	960 hours	6.4 sec	

FEATURES

High-resolution S-VHS pictures* with field recording/playback
The BR-S925E/920E incorporate the high-resolution S-VHS recording and playback system for more than 400 lines of horizontal resolution — 60% more than offered by conventional VHS video systems. For increased information-capturing capability, field mode recording and playback circuitry is provided. A different image can be recorded on each field with clear, sharp reproduction of everything from the words and figures on a text screen to the details and characteristics of an individual's face.

* Incorporates Y/C separation technology licensed by FAROUDJA Laboratories.
* Employs chroma-enhancing technology co-developed by JVC and FAROUDJA Laboratories and modified for S-VHS applications.

Alarm recording with alarm/power-loss memory
For greater reliability, the BR-S925E/BR-S920E feature advanced alarm recording and alarm search capabilities. Whenever an alarm signal is received, the pre-selected VHS Standard (SP) or Long Play (LP) continuous record mode is automatically activated for uninterrupted real-time recording of the alarm situation. To enable easy, high-speed retrieval of each alarm recording, VISS index codes are automatically recorded on the tape whenever alarm recording starts. Recording time per alarm is selectable from 5 seconds, 10 seconds, 15 seconds, 30 seconds, 60 seconds, 180 seconds, to tape end, or for the duration of alarm signal input. Reliability is further enhanced by a 999-event alarm memory and 99-event power-loss memory with exact time and date available for the first recorded incident, as well as the last three. This data will help you pinpoint peak problem periods and can be checked at any time by calling up the on-screen display.

Recording mode flexibility
Recording is possible for up to 960 hours (40 days) in the timelapse mode, with recording times also selectable from 24, 48, 72, 120, 168, 240, and 480 hours. You can choose a recording time to suit virtually any situation whether it's for a bank demanding 7-day coverage (168-hour mode) or a manufacturing operation closed down for the summer holidays (480/960-hour mode). Timelapse playback circuitry is also provided. For special requirements, one-shot field recording is possible with user-designated durations. Added versatility is provided by 14-day/8-event timer recording capability. This can be used in combination with timelapse recording to give you automatic coverage at specified times on a daily or weekly basis. For even greater flexibility, you can preset the recorder not to record on specified dates.

Other Features
- On-screen setup menu and mode display
- Series recording capability
- Recording check function for instant playback quality check during recording
- Auto head-cleaning mechanism
- Advanced mode lock system
- Time/date generator with position control and power backup
- Camera switching signal output with selectable intervals
- Clock calibration terminals for automatic adjustment of all connected VCR clocks to precisely the same time
- Video mode select switch
- Auto-repeat recording and playback
- Still and field advance
- Shuttle Search
- Reverse, double-speed, and timelapse mode playback
- Auto-reset recording after power failure
- Front panel cover to protect cassette slot and controls from the environment
- Digital hour meter up to 9999 hours
- Electronic buzzer to signal start of alarm recording
- Electronic buzzer for tape-end warning
- Through output of EE input with power off (composite video signal only)
- Wired remote control (optional)

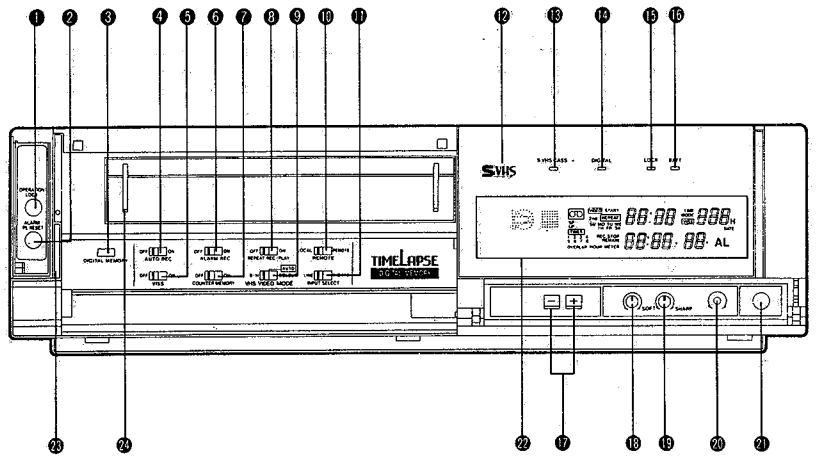
SPECIAL FEATURES EXCLUSIVE TO THE BR-S925E

Built-in digital memory with quad-screen display capability
Incorporating an advanced digital memory and circuitry, the BR-S925E is able to deliver a stable, timebase-corrected playback picture — a feature especially useful in timelapse playback. Several digital effects are also provided, further enhancing this unit's flexibility and cost-effectiveness. Included among these is quad-screen display capability — a world first. Ideal for playback of images recorded with a multi-camera surveillance system operating on a sequential camera switcher, this allows simultaneous display of separate images in the quad-screen format. Other effects include Digital Skip to view images from a single camera successively, and Digital Still which allows stored still images to be viewed in the Play or Stop mode.

Built-in RS-232C interface
For direct computer interface, the BR-S925E incorporates an RS-232C 25-pin serial remote control connector. This permits easy incorporation in a centralised security system and makes possible more precise programming of timelapse mode switching.

CONTROLS AND CONNECTORS

FRONT PANEL



❶ **OPERATION LOCK button**
❷ **ALARM/PL RESET button**
❸ **DIGITAL MEMORY button (BR-S925E only)**
- Activates digital memory. Delivers timebase-corrected pictures in the Play mode by replacing picked-up sync and burst signals with reference signals.
- The DIGITAL indicator remains lit while the digital memory is in use in the Digital Play and Digital Freeze modes.
- To use any digital effect, first press the DIGITAL MEMORY button.
- To deactivate the digital memory, press this button again.

❹ **AUTO REC switch**
ON: To automatically restart recording when power is restored after a power failure. Also set to this position when recording with an external timer.
OFF: To disable automatic recording function. To avoid accidental erasure of recorded tapes, be sure to set to this position if you don't require automatic recording.

❺ **VISS (VHS Index Search System) switch**
ON: To automatically locate recorded index codes in the Rewind or Fast-Forward mode. When used with alarm-recorded tapes, the beginning of the nearest alarm recording is located.
OFF: Normally set to OFF.

❻ **ALARM REC switch**
ON: To switch from the timelapse recording mode to the 3-hour (S-VHS/VHS SP) or 6-hour (S-VHS/VHS LP) recording mode when an alarm signal is input. Alarm recording duration can be selected from 5 sec., 10 sec., 15 sec., 30 sec., 60 sec., 180 sec., to tape end, or for the duration of alarm signal input.
OFF: To continue recording in the same mode when an alarm signal is input.

❼ **COUNTER MEMORY switch**
ON: Tape automatically stops at counter reading zero in the Rewind or Fast Forward mode.
OFF: To defeat counter memory function.

❽ **REPEAT REC/PLAY switch**
ON: To repeat recording or playback. When the end of the tape is reached, the tape is rewound to the beginning and recording or playback automatically restarts.
OFF: No repeat operation.

❾ **VHS VIDEO MODE select switch**
This applies to both recording and playback (VHS mode only).
COLOR: Set to this position when the input or playback video signal is in colour.
AUTO: Set to this position for automatic switching between colour and black/white modes according to the type of signal. Normally set to this position.
B/W: Set to this position when the input or playback video signal is monochrome.

❿ **REMOTE/LOCAL select switch**
LOCAL: Set to this position to control the recorder with its own function buttons. Operation via a connected remote control unit or computer is not possible.
REMOTE: Set to this position to control the recorder via a connected remote control unit or computer. (The recorder's function buttons can still be used when the switch is set to this position.)

⓫ **VIDEO INPUT select switch**
To select input video signals for recording.
LINE: Selects the composite video signal applied to the VIDEO IN connector.
Y/C 443: Selects the separated Y/C signals applied to the Y/C 443 IN connector.

⓬ **S-VHS indicator**
- Lights when an S-VHS cassette is inserted.
- Lights during recording and playback in the S-VHS mode.

⓭ **S-VHS cassette indicator**
- Lights when an S-VHS cassette is inserted.

⓮ **DIGITAL indicator (BR-S925E only)**
- Lights when the DIGITAL MEMORY button ❸ is pressed.
- Blinks in the Multi mode (Quad Display or Skip Play).

⓯ **LOCK indicator**
- Lights when the Operation Lock mode is engaged.

⓰ **BATTERY indicator**
- Lights if no TDG backup batteries have been installed.
- Lights when TDG backup battery power drops to a level requiring replacement. Replace the backup batteries with new R6/AA/UM-3 batteries.

⓱ **TRACKING (+/–) butons**
- To adjust tracking to minimise noise bars in playback picture.
- Press both buttons simultaneously to reset tracking to normal.
- Tracking is automatically reset when a cassette is ejected or the power is switched off.

⓲ **ON SCREEN BRIGHT control**
- To adjust brightness of time/date characters superimposed on the picture. Using a screwdriver, turn clockwise to increase brightness, and counterclockwise to reduce brightness.

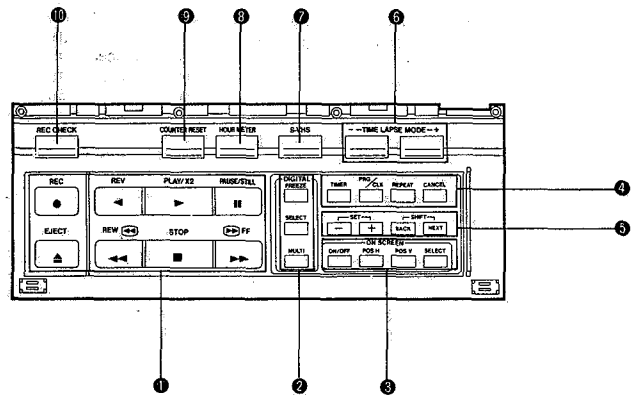
⓳ **SHARPNESS control**
- Turn for a softer or sharper playback picture.

⓴ **V-Lock control**
- Turn to eliminate vertical jitter in still pictures.

㉑ **REMOTE terminal (RCA)**
- Connect the optional remote control unit (RM-G30U) to this terminal.

㉒ **FDP (Fluorescent Display Panel)**
㉓ **POWER button with LED indicator**
㉔ **Cassette loading slot**

FOLDOUT CONTROL PANEL



❶ Operation buttons

REV button
- Starts reverse playback at normal speed.

REC button
- Starts recording.
- Activates the off-timer when pressed in the Record mode.

EJECT button
- Ejects the cassette.

REW button
- Starts tape rewind when pressed in the Stop mode.
- Starts high-speed reverse shuttle search when pressed in the Play mode.
- Starts alarm search in the reverse direction if the front panel VISS switch ❺ is set to ON.

PLAY/X2 button
- Starts playback.
- Starts double-speed playback when pressed in the Play mode.
- Re-starts normal playback when pressed in the Still, Double-speed, or Search mode.
- Re-starts recording when pressed in the Record-Pause mode.

STOP button
- Stops the tape.

PAUSE/STILL button
- Temporarily stops recording when pressed in the Record mode.
- Displays a still picture when pressed in the Play mode.

FF button
- Starts tape fast forward when pressed in the Stop mode.
- Starts high-speed forward shuttle search when pressed in the Play mode.
- Starts alarm search in the forward direction when the front panel VISS switch ❺ is set to ON.

❷ DIGITAL buttons (BR-S925E only)
- To apply digital effects during playback, the digital memory must be activated. To activate it, press the DIGITAL MEMORY button ❸.

MULTI button
- Press once to display images from different cameras in four windows (Quad Display).
- Press again to successively display images from a single camera (Skip Display).
- Press again to return to the normal Digital Play mode.
  Digital Play → Quad Display → Skip Play → Digital Play...

SELECT button
- Sequentially selects camera pictures while in the Quad Display or Skip Play mode.
- When pressed in the Quad Display mode, camera pictures in windows rotate counterclockwise. A new camera picture (if available) will appear in the bottom right window.
- When pressed in the Skip Play mode, the camera picture currently being played back is replaced by the next camera picture.

FREEZE button
- To output a still image from digital memory in the Digital Play or Still mode. The still image continues to be output even when the Stop mode is engaged.

❸ ON SCREEN buttons

To select on-screen modes and character position.

ON/OFF button

ON: To record time/date information together with the input signal and superimpose it on the picture.

OFF: To defeat recording and superimposition of time/date information.

POS H button
- To horizontally shift superimposed time/date characters.

POS V button
- To vertically shift superimposed time/date characters.

SELECT button
- To select the On-Screen Display mode. Six different displays are available (☞ p.11 "On-Screen Display and Setup Menu").

❹ TIMER/TDG buttons

To set the timer and time/date generator.

TIMER button
- Engages the Timer Standby mode after the 14-day/8-event timer has been programmed.

PROGRAM/CLOCK button
- Switches the display mode between Clock mode, Timer Set mode, and Clock Set mode.

REPEAT button
- To select weekly and daily timer programming options.

CANCEL button
- Engages the Cancel Program mode.
- Cancels programmed timer data.

❺ SET/SHIFT buttons

SET (+/–) buttons
- To set data in the Clock Set, Timer Set, or Setup Menu mode.

SHIFT (NEXT/BACK) buttons
- To select items in the Clock Set, Timer Set, or Setup Menu mode.

❻ TIMELAPSE MODE (+/–) buttons

To select tape speed in recording and playback. The selected mode is indicated on the display panel.

Display

000 H : One-shot recording
003 H : S-VHS/VHS SP mode
006 H : S-VHS/VHS LP mode
024 H : Timelapse 24-hour mode
048 H : Timelapse 48-hour mode
072 H : Timelapse 72-hour mode
120 H : Timelapse 120-hour mode
168 H : Timelapse 168-hour mode
240 H : Timelapse 240-hour mode
480 H : Timelapse 480-hour mode
960 H : Timelapse 960-hour mode

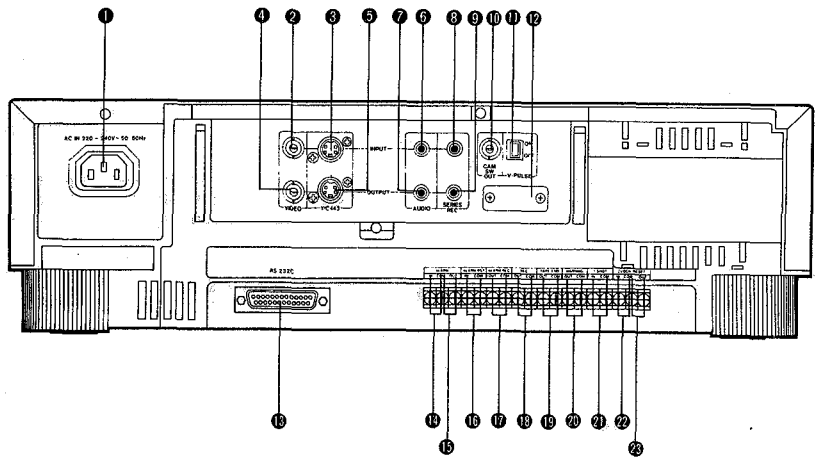
❼ S-VHS button
- Alternates between S-VHS and VHS modes. Press to cancel the S-VHS mode when recording in the VHS mode on an S-VHS cassette.

❽ HOUR METER button
- Displays the total VCR operating time on the display panel (up to 9999 hours). To cancel the hour meter display, press it again.

❾ COUNTER RESET button
- Resets the counter on the display panel to zero.

❿ REC CHECK button
- When pressed during recording, rewinds the tape briefly, plays back the last recorded segment, and then resumes recording.

REAR PANEL



❶ **AC input socket (AC IN 220V-240V)**
- Connect to a 220V-240V AC, 50/60 Hz power outlet.

❷ **VIDEO IN connector (BNC)**

❸ **Y/C 443 IN connector**

❹ **VIDEO OUT connector (BNC)**
Outputs the signal input to the VIDEO IN connector ❷ even when power is off.

❺ **Y/C 443 OUT connector**

❻ **AUDIO IN connector**

❼ **AUDIO OUT connector**

❽ **SERIES REC IN terminal**
- Connect to the SERIES REC OUT terminal of another recorder for series recording. When the tape in the preceding recorder nears the end, a signal will be delivered to this terminal. Recording will start automatically.

❾ **SERIES REC OUT terminal**
- Connect to the SERIES REC IN terminal of another recorder for series recording. When the tape in this recorder nears the end, a signal will be delivered to the connected recorder for automatic start of recording.

❿ **CAMERA SW OUT connector**
- Connect to a sequential camera switcher to deliver a command signal for camera switching.

Note:
Low active pulse, width: 5 m sec.

⓫ **V.PULSE switch**
ON: Set to this position when using non-interlaced cameras. Vertical dancing of the playback picture will be reduced.
OFF: No effect. Normally set to this position.

⓬ **DIP switches**
- Be sure to turn the power off before setting.

SW 1 — 3: Selects RS-232C data transmission speed.

	600 (BPS)	1200 (BPS)	2400 (BPS)	4800 (BPS)	9600 (BPS)
SW-1	ON	ON	ON	OFF	OFF
SW-2	ON	ON	OFF	ON	OFF
SW-3	ON	OFF	OFF	OFF	OFF

SW 4 — 8: Not used.

⓮ **RS-232C port (BR-S925E only)**
- Connect an RS-232C interface cable for computer control.

⓯ **ALARM IN/COM terminals**
- Connect to an external sensor for alarm signal input.

⓰ **ALARM OUT/COM terminals**
- Outputs the alarm signal input to ALARM IN.

⓱ **ALARM RST IN/COM terminals (Alarm reset)**
- Cancels alarm recording.

⓱ **ALARM REC OUT/COM terminals**
- Outputs +12 V during alarm recording.

⓲ **REC OUT/COM terminals**
- Outputs +12 V during recording.

⓳ **TAPE END OUT/COM terminals**
- Outputs +12 V during recording. Drops to 0 V (GND level) when tape end is detected.
- Connect to an external alarm lamp or buzzer.
- To cancel output, press EJECT, PLAY, FF, or REW.
- When VCR detects tape end during auto repeat recording in Auto Rewind mode, the pulse is output for about 2 seconds.

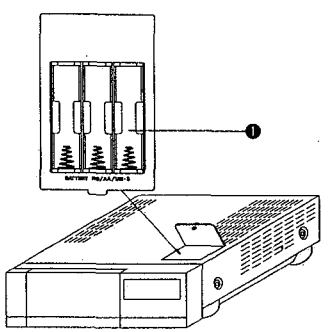
⓴ **WARNING OUT/COM terminals**

㉑ **1 SHOT IN/COM terminals**
- Connect to a remote control switch for one-shot field recording.

㉒ **CLOCK RESET IN/COM terminals**
- Connect to another BR-S925E/920E's CLOCK RESET OUT terminal to automatically reset the clock at 0:00 AM and 12:00 PM.

㉓ **CLOCK RESET OUT/COM terminals**
- Outputs 0 V (GND level) at 0:00 AM and 12:00 PM for automatic adjustment of all connected VCR clocks.

TOP PANEL

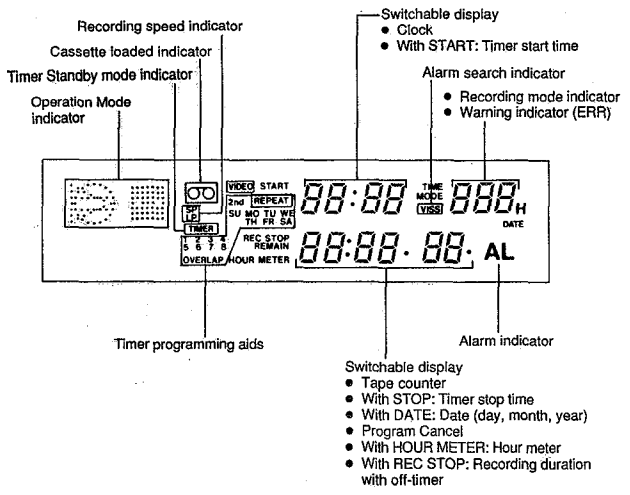


❶ **Battery holder**
- Insert TDG backup batteries (R6/AA/UM-3) in here.

NOTE:
- Batteries must be replaced once a year.
- When the backup batteries have been in use for a long period, check the time and date to confirm that data is correct.

DISPLAYS

FLUORESCENT DISPLAY PANEL



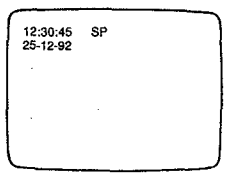
Tape Operation Mode Indicators

Play/Double-Speed Play	
Reverse Play	
Tiemelapse Play	
Fast Forward	
Rewind	
Forward Search	
Reverse Search	
Still/Field Advance	
Record	
Record-Pause	

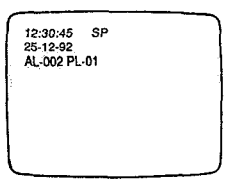
ON-SCREEN DISPLAY AND SETUP MENU

To check time and date, or alarm/power-loss memory data, use the on-screen display. The setup menu is also available on-screen. (Video signal input is necessary.)

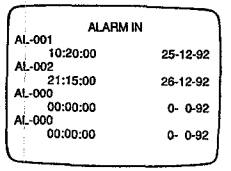
1. Press ON SCREEN ON/OFF.
   On-screen page 1 appears.
   Page 1: Time, date, and recording speed.



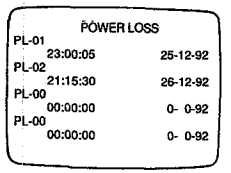
2. Press ON SCREEN SELECT.
   On-screen page 2 appears.
   Page 2: Time, date, and recording speed, plus alarm input and power loss totals.



3. Press ON SCREEN SELECT.
   On-screen page 3 appears.
   Page 3: ALARM IN data with time and date for the first alarm input and the last three.



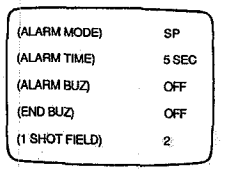
4. Press ON SCREEN SELECT.
   On-screen page 4 appears.
   Page 4: POWER LOSS data with time and date for the first power loss and the last three.
   - To reset the alarm/power loss memory, press the ALARM/PL RESET button twice. ("AL" blinks on the FDP when pressed once.) All alarm and power loss data will be cleared.



5. Press ON SCREEN SELECT.
   On-screen page 5 appears.
   Page 5: Setup Menu.

To change the setting, select the item with the SHIFT NEXT or BACK button and set the data with the SET "+" or "–" button. Available settings are as follows:

ALARM MODE: SP ↔ LP
ALARM TIME: 5 SEC → 10 SEC → 15 SEC → 30 SEC → 60 SEC → 180 SEC → TAPE E (End) → MANUAL (during alarm input) → 5 SEC...
ALARM BUZ: ON ↔ OFF
END BUZ: ON ↔ OFF
1 SHOT FIELD: 1 → 2 → 5 → 10 → 1...

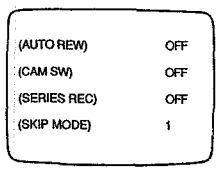


NOTES:
- The buzzer for tape-end beeps for about 3 minutes.
- To stop the buzzer, set menu item "END BUZ" to OFF, or press either STOP or POWER. The buzzer also stops when the power is automatically turned off.

6. Press ON SCREEN SELECT.
   On-screen page 6 appears.
   Page 6: Setup Menu.

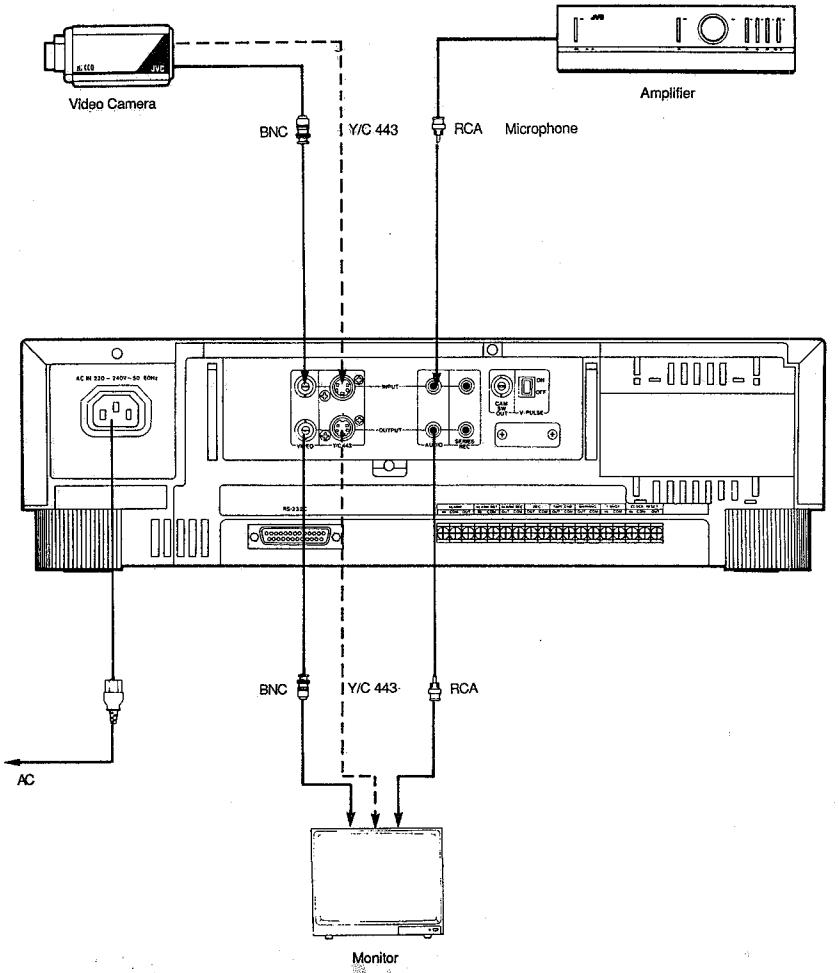
To change the setting, select the item with the SHIFT NEXT or BACK button and set the data with the SET "+" or "–" button. Available settings are as follows:

AUTO REW: ON ↔ OFF
CAM SW: 1 FIELD → 1 FRAME → 2 FRAMES → 25 FRAMES → 50 FRAMES → OFF → 1 FIELD...
SERIES REC: ON ↔ OFF
SKIP MODE: 1 → 2 → 3 → 4 → 5 → 6 → 7 → 8 → 9 → 10 → 11 → 12 → 13 → 14 → 15 → 16 → 1...
(BR-S925E only)

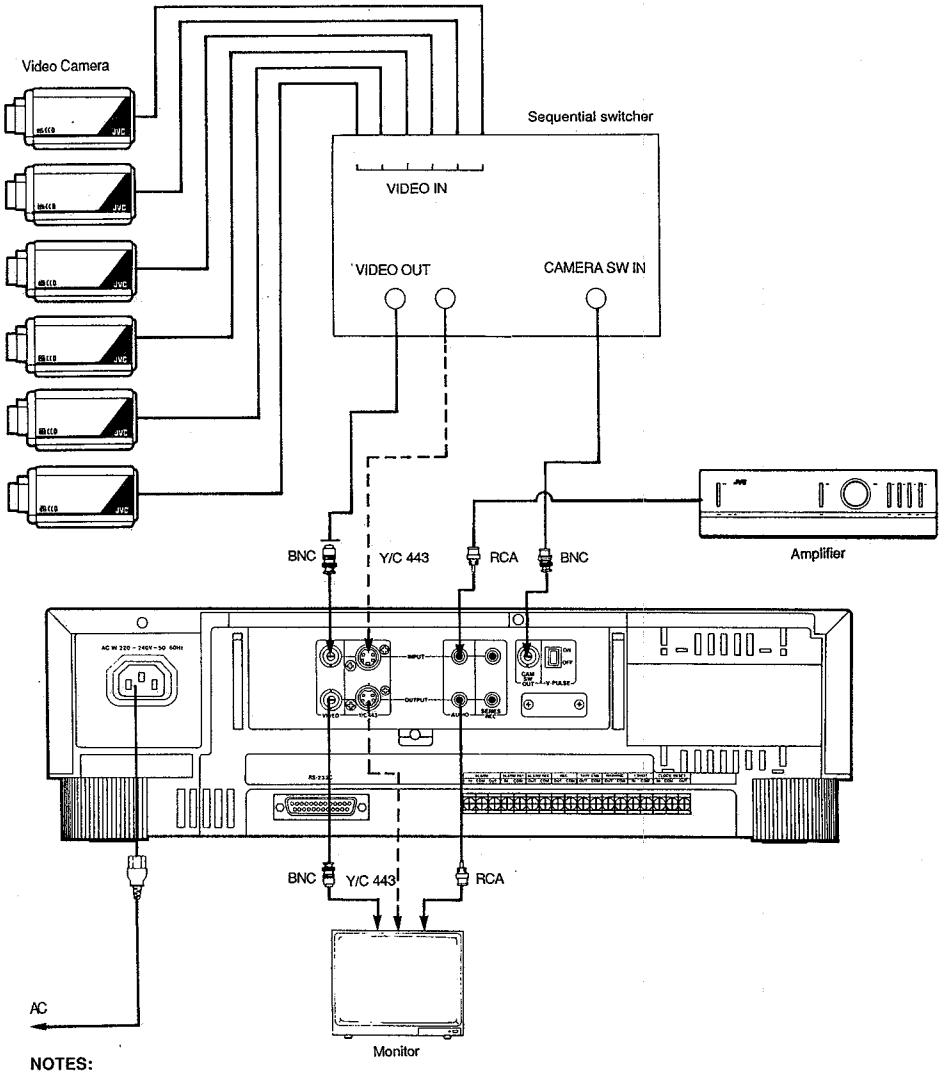


CONNECTIONS

CONNECTION TO A CAMERA WITH A BUILT-IN SSG



CONNECTION TO SEVERAL CAMERAS VIA A SEQUENTIAL SWITCHER



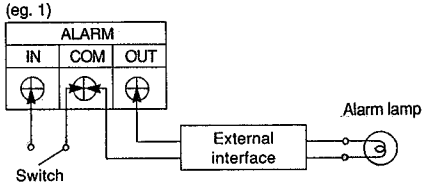
NOTES:

- Camera signals can be monitored even if the recorder's power is off. (composite video signal only)
- When connecting to the SW-C300E or SW-501E, set the timelapse mode to 24 hours or longer.
- When connecting to a sequential switcher with an alarm input terminal, set the On-Screen Setup Menu item "ALARM TIME" to "MANUAL". Alarm time setting is done by the sequential switcher.

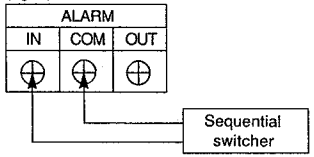
INPUT/OUTPUT TERMINAL CONNECTIONS

ALARM IN/OUT

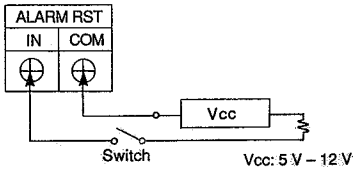
(eg. 1)



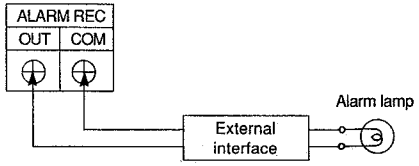
(eg. 2)



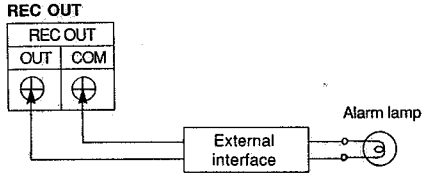
ALARM RESET



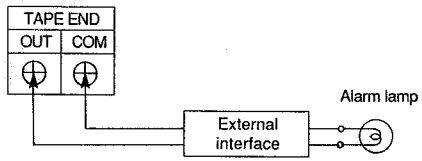
ALARM REC



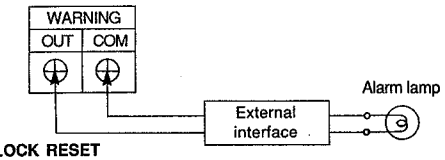
REC OUT



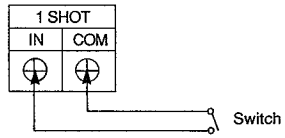
TAPE END



WARNING

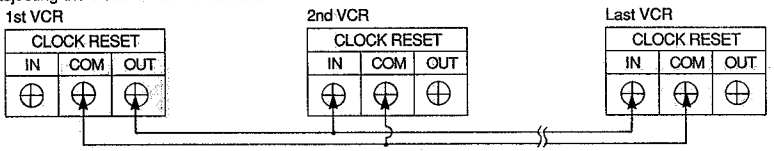


1 SHOT

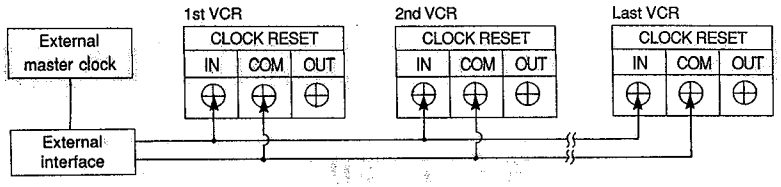


CLOCK RESET

- When adjusting the clock to 1st VCR's clock.

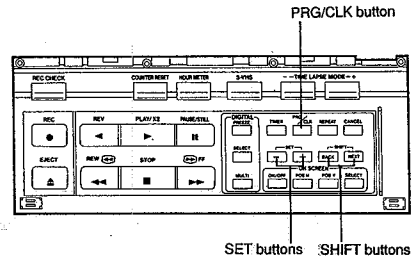


- When adjusting the clock to external master clock.

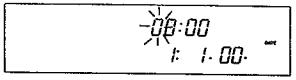


CLOCK SETTING

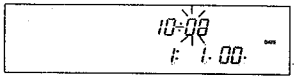
Time/date generation and timer operation are not possible if the clock has not been set.



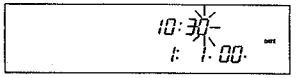
1. Press PRG/CLK until the Clock Set mode is engaged.
   - The hour indication will blink.



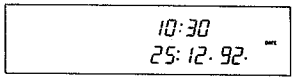
2. Enter the hour with either SET button, and press SHIFT NEXT.
   - To enter one digit only, press SHIFT NEXT, then set the number.



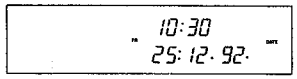
3. Enter the minutes with either SET button, and press SHIFT NEXT.



4. Enter the day, month, and year in the same way.
   - In year setting, set only the last two digits of the year.
   - If you make a mistake, press SHIFT NEXT or SHIFT BACK to return to the item.
   - You can reset the seconds to "00" by pressing both SHIFT buttons or both SET buttons simultaneously.



5. Press PRG/CLK to end clock setting.
   - Time-keeping starts.
   - The day-of-the-week indication is automatically displayed.



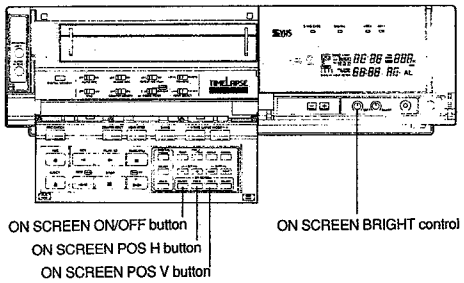
Power failure indicator

- A blinking "SU 0:00" indicates that the backup batteries have been discharged. Replace the batteries and set the clock again.

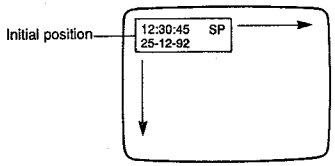
TIME/DATE GENERATOR

The built-in time/date generator allows you to superimpose the time and date on the video image and record it.

- Make sure the recorder's clock is set correctly. ☞ p.16



1. Press ON SCREEN ON/OFF to activate the On-Screen Display.
2. Press ON SCREEN POS H and POS V to move the cursor to the position where you want the superimposed characters to appear.
   - Pressing POS H moves the cursor to the right in 17 steps. Pressing the button again when the cursor is on the left of the screen will return it to the left.
   - Pressing POS V moves the cursor down the screen in 15 steps. Pressing the button again when the cursor is at the bottom of the screen will return it to the top.
3. Adjust the brightness of the time/date display with the ON SCREEN BRIGHT control.
   - Turn clockwise to increase brightness or counterclockwise to decrease it.

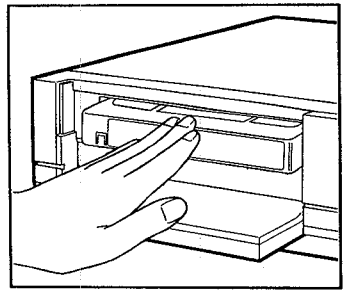


NOTES:
- The clock must be reset after the recorder has been unplugged for a long period of time.
- Because the clock may gain or lose up to 60 sec. a month due to environmental variations such as temperature fluctuations, we recommend that the clock be adjusted on a regular basis.

HANDLING VIDEO CASSETTES

LOADING

1. Insert a cassette with its label side facing you.
   - The power will come on automatically.
   - If an S-VHS cassette is inserted, the S-VHS and S-VHS CASS. indicators will light.
   - If the safety tab has been removed, playback will start automatically.
   - For best results, use only JVC video cassettes.



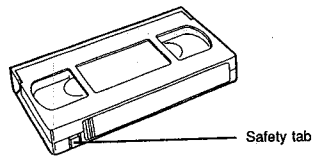
UNLOADING

1. Press EJECT.
   - Even when the power is off, simply press the EJECT button to unload a cassette.
   - If the cassette will not eject, check to see if "TIMER" is displayed on the display panel. If it is, press the TIMER button to turn off the Timer Standby mode.

WARNING
- Do not insert fingers or foreign objects into the cassette loading slot as this may result in personal injury or damage to the mechanism.
- Do not try to remove the cassette once automatic loading has started.

ACCIDENTAL ERASURE PREVENTION

- To prevent accidental recording on a recorded cassette, remove its safety tab.
- To record on it later, cover the hole with adhesive tape.

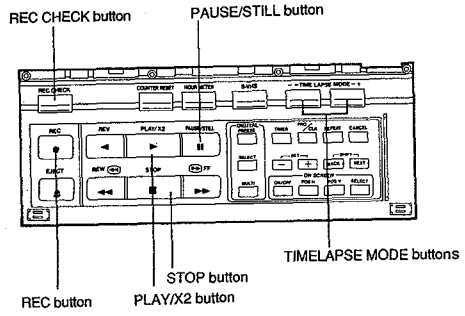


RECORDING

BASIC PROCEDURE

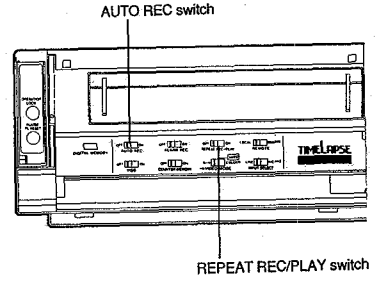
- Connect necessary components correctly. ☞ p.13.
- Set the VIDEO MODE and INPUT SELECT switches as required.

1. Load a cassette with safety tab in place.
2. If you're using an S-VHS cassette, press S-VHS to select VHS or S-VHS as required.
3. Press TIMELAPSE MODE +/– to select the recording mode.
   - The recording mode will appear on the FDP.
4. Press REC to start recording.
   - To verify picture quality during recording, press REC CHECK. The tape will rewind a short distance, play back the last recorded segment, then resume recording.
5. To temporarily stop recording, press PAUSE/STILL.
   - The recorder will enter the Record-Pause mode. If the recorder remains in this mode for more than 5 min. 25 sec., it will automatically enter the Stop mode.
6. To re-start recording, press PLAY/X2.
7. To end recording, press STOP.



Repeat Recording
Set the REPEAT REC/PLAY switch to ON. The recorder will automatically rewind the tape at tape end (regardless of the setting of the On-Screen Setup Menu item "AUTO REW"), and start recording again from the beginning.

Automatic Start of Recording After Power Failure
Set the AUTO REC switch to ON. If a power failure occurs during recording, recording will re-start automatically when power is restored. The recording mode will be the same as when power was lost.

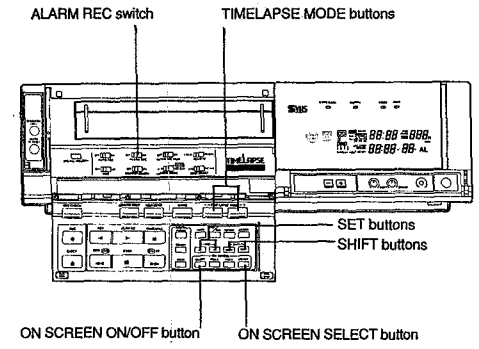


ALARM RECORDING

Alarm recording allows the recorder to automatically switch to the pre-selected 3-hour (SP) or 6-hour (LP) continuous recording mode when an alarm signal is received via the rear panel ALARM IN/COM terminals. Recording will continue for the pre-selected duration.

- Connect necessary components correctly. ☞ p.13.

1. Press ON SCREEN ON/OFF to activate the on-screen display.
2. Press ON SCREEN SELECT to call up on-screen page 5.
3. Press SHIFT BACK/NEXT to select "ALARM MODE".
4. Press SET +/– to set SP or LP.
   - Alarm recording will take place in the selected mode.
5. Press SHIFT BACK/NEXT to select "ALARM TIME".
6. Press SET +/– to set the alarm recording duration.
   - Selectable from 8 settings. If set to "TAPE E", alarm recording continues until the end of the tape is reached. If set to "MANUAL", alarm recording continues as long as the alarm signal is being input. Use this position if you use a type of alarm sensor which outputs pulses continuously until it resets to normal.
7. Press SHIFT BACK/NEXT to select "ALARM BUZ".
8. Press SET +/– to set ON or OFF.
   - If set to ON, the built-in electronic buzzer signals the start of alarm recording.
9. Press ON SCREEN ON/OFF to cancel the on-screen display.
10. Set the ALARM REC switch to ON.
11. Press TIMELAPSE MODE +/– to select the recording mode.
12. Press REC to start recording.



(ALARM MODE)	SP
(ALARM TIME)	5 SEC
(ALARM BUZ)	OFF
(END BUZ)	OFF
(1 SHOT FIELD)	2

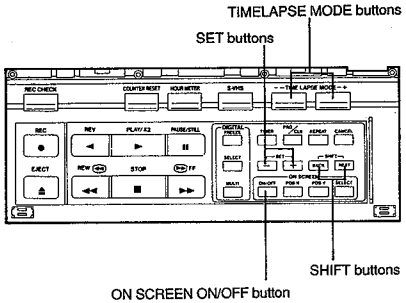
On-screen page 5

NOTES:
- An index code is recorded when the recorder switches from Timelapse to Alarm Recording.
- Alarm recording is not possible in the one-shot recording mode.
- If alarm recording is engaged in timer recording, alarm recording will stop at the preset timer-stop time.

ONE-SHOT FIELD RECORDING

In normal timelapse recording one field is recorded at a time. One-shot field recording gives you greater flexibility by allowing you to chose how many fields are to be recorded at one time.

1. Press ON SCREEN ON/OFF to activate the on-screen display.
2. Press ON SCREEN SELECT to call up on-screen page 5.
3. Press SHIFT BACK/NEXT to select "1 SHOT FIELD".
4. Press SET +/– to set number of fields to be recorded.
   - Selectable from 1, 2, 5, and 10 fields. The recording interval is 0.32 seconds (corresponds to 48-hour mode).
5. Press ON SCREEN ON/OFF to cancel the on-screen display.
6. Set the recording time to "003H" (SP mode) with TIMELAPSE MODE +/– buttons and press REC to engage the Record mode.
7. Set the recording time to "000H" (one-shot recording mode) with TIMELAPSE MODE +/– buttons during recording.
8. Press PAUSE/STILL to engage the Record-Pause mode.
9. To start one-shot field recording, press PAUSE.
   - The designated number of fields are recorded and the recorder enters the Record-Pause mode.
   - You can also start one-shot recording by connecting an external switch to the 1 SHOT IN/COM terminals on the rear panel.
10. To cancel one-shot recording, press STOP or set to a recording time other than "000H". If the Record-Pause mode continues for more than 3 minutes, the recorder automatically restarts the current one-shot recording.



(ALARM MODE)	SP
(ALARM TIME)	5 SEC
(ALARM BUZ)	OFF
(END BUZ)	OFF
(1 SHOT FIELD)	2

On-screen page 5

SERIES RECORDING

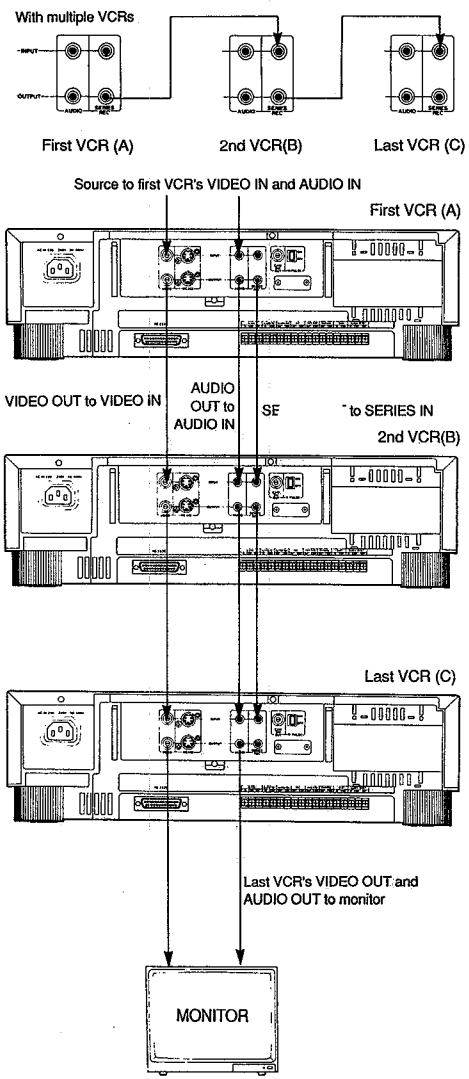
By connecting several BR-S925E/920Es in series you can obtain in-depth coverage over a long period of time.

1. Engage the On-Screen Setup Menu and set SERIES REC to "ON" for all connected recorders. ☞ p.12
2. Set all recorders (except A) in the Stop mode.
3. Operate Recorder A for recording.
   When Recorder A reaches tape end, it will transmit a series control command to Recorder B. Recorder B will start recording.

NOTES:

- A series control command can be accepted while the recorder is in the Rewind mode. In this case, recording will start once rewind is completed.
- Do not put Recorder B (and subsequent ones) in the Play, Still, Record, or Record-Pause mode.
- Series operation will stop if the series control command is delivered to an unloaded VCR. Be sure that cassettes are loaded in all connected VCRs.
- Series operation can be cancelled at any time by pressing the currently-operating VCR's STOP button.

Connections

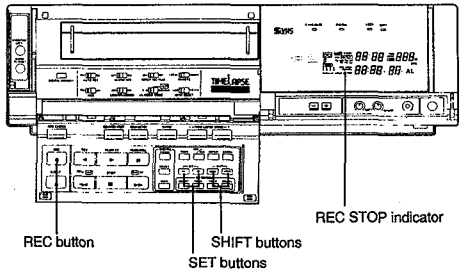


(Be sure to terminate the signals at the monitor with a 75-ohm terminating connector.)

INSTANT TIMER RECORDING (OFF-TIMER)

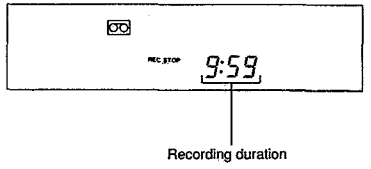
You can set the VCR to automatically stop recording and shut off after a specified timespan.

1. Press REC while in the Record mode to activate the off-timer.
   - "REC STOP" lights on the display panel. Recording duration is set at "0:30" (30 minutes).
   - The off-time can be delayed in 30-minute increments (up to 9 hours) by pressing REC.
   - If the end of the tape is reached during recording, the cassette is ejected and power turned off.



Off-Time Setting In 1-Minute Increments
Once the off-timer has been activated, the off-time can be set more precisely (up to 9 hours, 59 minutes). Incremental setting is not possible with the On-Screen Setup Menu activated.
After step 1:

2. Press SHIFT NEXT or BACK.
3. Press SET to set the hour, and press SHIFT NEXT.
4. Press SET to set the minute, and press SHIFT NEXT.
   - Make entries within 10 seconds at each step.
5. Press REC to end setting.
   - The digits will stop blinking.



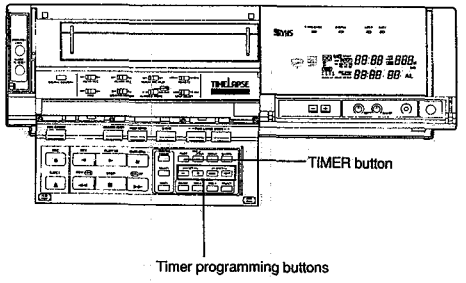
NOTES:
- Instant timer recording has priority over programmable timer recording. Be sure that the preset times do not overlap.

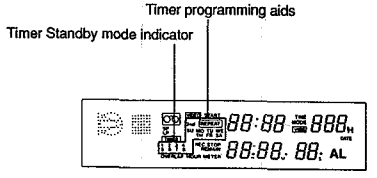
PROGRAMMABLE TIMER RECORDING

Unattended start and stop of recording is possible using the 14-day/8-event programmable timer.

- For timer programming procedures, ☞ p.25.
- Make necessary preparations for connected components.

1. Load a cassette with safety tab in place.
2. Program the timer with the SET and SHIFT buttons. ☞ p.25.
3. Press the TIMER button to enter the Timer Standby mode.
   - "TIMER" and program number(s) appear on the display panel.
   - Recording will start at the preset time, and stop at the preset time.
   - If the end of the tape is reached during recording, the cassette is ejected and power turned off.





NOTES:
- If you need to use the VCR while it is in the Timer Standby mode, press TIMER and then POWER. After using the VCR, be sure to press TIMER to engage the Timer Standby mode.

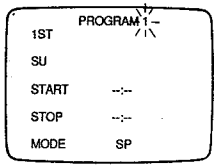
TIMER PROGRAMMING

This section describes timer programming procedure only. To activate timer recording, ☞ p.24.

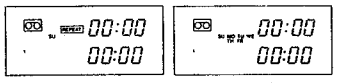
PROCEDURE

- Turn on the VCR

1. Press PRG/CLK to engage the Timer Set mode.
   - Program 1 will blink on the FDP.
   - To advance to another program, select a program number with SET +/–.
   - Data can also be displayed on-screen. Supply a composite video signal to the video input connector for on-screen display.

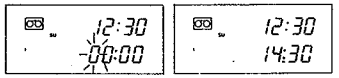


2. Press SHIFT NEXT.
   "SU" will blink on the FDP.
3. Enter the day with SET +/–.
   - The day of the week changes from 1st week to 2nd week. (eg. "SU", "MO",..."2nd SA", "2nd SU")
   - For weekly setting, press REPEAT. "REPEAT" will appear above the day.
   - For daily setting, press SET +/– until the desired option appears. ("SU"..."SA", "MO"..."SA", "MO"..."FR")
4. Press SHIFT NEXT to advance to the next step.

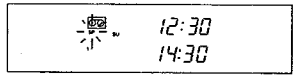


Weekly setting Daily setting

5. Enter the start time with SET +/– and SHIFT NEXT.
6. Enter the stop time with SET +/– and SHIFT NEXT.
7. Select the recording mode with TIMELAPSE MODE +/–.
8. Press PRG/CLK to end programming.
   - To immediately engage the Timer Standby mode, press TIMER.
   - Before engaging the Timer Standby mode, make sure that the timelapse recording mode is set as required.



Blinking item is ready to be set.

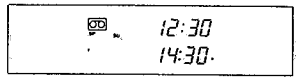


NOTES:
- "1st week" and "2nd week" do not refer to calendar weeks. The 1st week refers to the seven-day period beginning with the present day and the 2nd week refers to the subsequent seven-day period. These two weeks are counted from the time of setting.
- If the "OVERLAP" indication appears on the FDP when the TIMER button is pressed, it means that the start and stop times of two or more programs overlap. Check the timer data and correct as necessary. If overlapping programs are not corrected, the second program will not start until the first one is completed.

OVERLAP indicator

Checking timer data

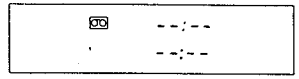
1. Press PRG/CLK in the Timer Standby mode.
   - Timer data for program 1 appears on the display panel for 5 seconds, followed by program 2, and so on.
   - To advance the data display manually, press SET.
2. Check the data.
   - To return to the Clock mode, press PRG/CLK. The Clock mode is returned to automatically if no action is taken for 60 seconds.



Cancelling timer data

- Cancel the Timer Standby mode.

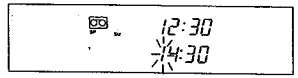
1. Press PRG/CLK.
   - Timer data for program 1 appears on the display panel.
2. Press SET to select the program you wish to cancel.
3. Press CANCEL.
   - Programmed data is cleared from memory.



Correcting timer data

After step 1:

2. Press SET+/– to select the program number you wish to correct.
3. Press SHIFT NEXT or BACK to move to the item to be corrected and enter new data with SET.

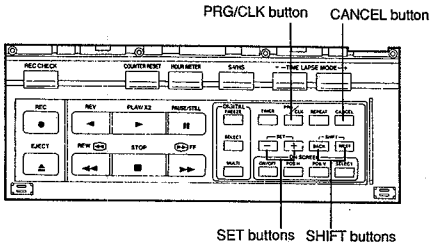


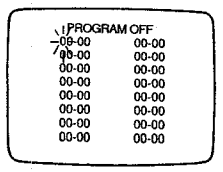
Program Cancel mode

When you've set the timer for weekly or daily repeat recording, you may wish to cancel recording on specified days falling within the preset period. With the Program Cancel function, you can set the timer not to record on up to 14 specified days during the year.

1. Press CANCEL and hold it for at least 5 seconds. Then press PRG/CLK within 5 seconds.
   - The following display appears on-screen with day digits blinking.
   - The display panel also changes to the Program Cancel mode.
2. Set the date(s) where recording is not to take place with the SET and SHIFT buttons.
   - To cancel a preset date, press either SHIFT button until the relevant digits are blinking and press CANCEL.
3. Press PRG/CLK to return to the normal display mode.

NOTES:
- Program Cancel data (day and month) will remain even after the year is advanced.
- Year setting is not possible.



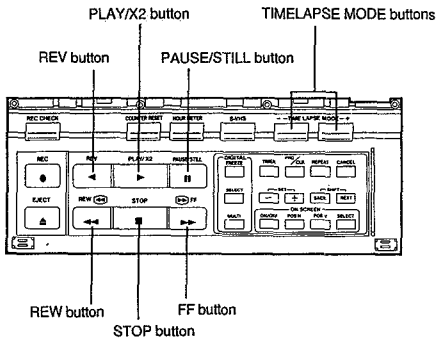


PLAYBACK

BASIC PROCEDURE

1. Load a cassette.
   - If the safety tab on the cassette is removed, playback starts automatically.
2. Press TIMELAPSE MODE +/– to select the appropriate playback mode.
3. Press PLAY/X2 to start playback.
   - Adjust the picture as required with the SHARPNESS control.
4. Press STOP to stop playback.

NOTES:
- The recorder is preset to automatically stop when the end of the tape is reached. If you want the recorder to rewind at tape end, set "AUTO REW" to "ON" via On-Screen Setup Menu page 6. ☞ p.12
- If the REPEAT REC/PLAY switch is set to ON, playback will start again automatically from the beginning.
- Do not engage the DIGITAL MEMORY button when playing back a copy-protected tape. (BR-S925E only)



BASIC PROCEDURE

1. Load a cassette.
   - If the safety tab on the cassette is removed, playback starts automatically.
2. Press TIMELAPSE MODE +/– to select the appropriate playback mode.
3. Press PLAY/X2 to start playback.
   - Adjust the picture as required with the SHARPNESS control.
4. Press STOP to stop playback.

DOUBLE-SPEED PLAYBACK

- Press PLAY/X2 while in the SP or LP mode to engage the Double-Speed mode.
- Press PLAY/X2 to return to the original playback mode.
- In timelapse playback, pressing PLAY/X2 engages the SP mode. Press again for Double-Speed playback.
  Timelapse Play → SP → Double-Speed Play → Timelapse Play ...

REVERSE PLAYBACK

- Press REV while in the Play mode for reverse playback at normal speed.
- Press PLAY/X2 to return to the original playback mode.

STILL AND FIELD ADVANCE

- Press PAUSE/STILL while in the Play mode to view a still picture.
- Press PAUSE/STILL while in the Still mode to advance the picture field by field (SP mode only).
- Press PLAY/X2 to return to the original playback mode.

NOTES:
- To protect the tape, the Still mode is automatically cancelled after about 5 minutes.

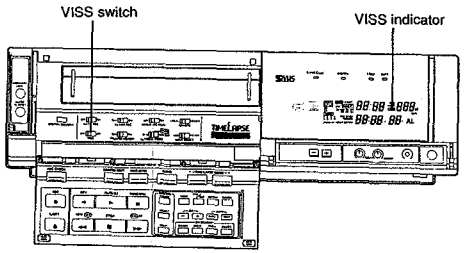
SHUTTLE SEARCH

- Press REW while in the Play mode for high-speed reverse search at 9 times normal speed.
- Press FF while in the Play mode for high-speed forward search at 9 times normal speed.
- Press PLAY/X2 to return to the original playback mode.
- For brief searching, hold REW or FF depressed; releasing the button returns to the original playback mode.

VISS INDEX SEARCH (ALARM SEARCH)

This function gives you quick access to the nearest index code in either direction. The recorder automatically marks index codes at the beginning of each recording initiated from the Stop or Timer Standby mode, as well as at the beginning of each alarm recording. You'll be able to access alarm recordings automatically when playing back tapes recorded with the ALARM REC switch set to ON.

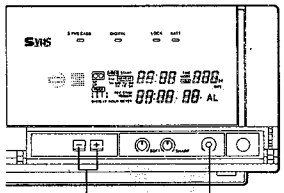
1. Set the VISS switch to "ON".
2. Press FF or REW in the Play, Still, or Stop mode.
   - VISS Index Search/Alarm Search will start in the corresponding direction. The "VISS" indication on the FDP will light.
   - If Index Search/Alarm Search was started from the Play or Still mode, the screen will show search pictures and playback will start automatically when the index code is located.
   - If Index Search/Alarm Search was started from the Stop mode, then the index code is detected in the Rewind or Fast-Forward mode. The tape stops when the index code is located.
3. To cancel VISS Index Search/Alarm Search, press STOP.



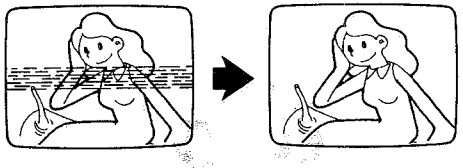
NOTES:
- This function will not operate during rewind in Auto Rewind mode and Repeat Recording/Playback mode.

TRACKING CONTROL

- To minimise noise bars that may appear on-screen during playback, press either TRACKING button until the best possible picture is obtained.
- To reset tracking to normal, press both TRACKING buttons simultaneously.
- To adjust tracking during still playback, press PAUSE/STILL a few more times to minimise noise bars.



TRACKING buttons V.LOCK control



V. LOCK ADJUSTMENT

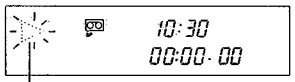
Vertical jitter in still pictures can be corrected with the V. LOCK control.

- Turn in either direction to minimise jitter.

NEXT-FUNCTION MEMORY

You can specify the mode you want to enter after rewind (Play, Timer Standby, Eject or Power Off) immediately after pressing the REW button.

1. Press REW while in the Stop mode.
2. Press the corresponding button (PLAY/X2, TIMER, EJECT, or POWER) within 2 seconds.
   - At completion of rewind, the selected mode is entered automatically.
   - During rewind, the corresponding indicator (PLAY, TIMER, "Cassette loaded" indicator, or POWER button's LED) blinks.
   - To cancel the memory during rewind, press STOP for Play Memory, STOP, PLAY/X2, FF, or REW for Eject Memory, TIMER or POWER for Timer Standby Memory, or POWER for Power Off Memory.



Blinks during rewind (for Play memory).

DIGITAL PLAYBACK (BR-S925E)

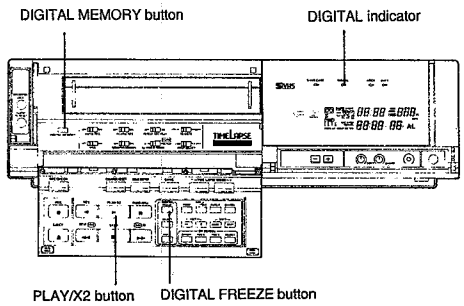
The BR-S925E incorporates a digital memory and circuitry for digital effects. (The Digital mode is preset at the factory.)

DIGITAL PLAY

1. Check that the VCR is in the Digital mode. If not, press DIGITAL MEMORY to activate the digital memory.
   - The DIGITAL indicator will light.
2. Press PLAY/X2.
   - Playback will start and timebase-corrected signals will be delivered to the monitor.

NOTES:

- Do not press the DIGITAL MEMORY button when playing back a copy-protected tape.
- When a blank tape is played back, a still image of the previous playback picture or EE picture can be displayed.



DIGITAL FREEZE

1. To display a still image from digital memory, press FREEZE.
   - If pressed in the Digital Play mode, the digital still image is output while the tape continues to run. Output of the digital still also continues if the STOP button is pressed to engage the Stop mode.
   - If pressed in the Still mode (engaged with PAUSE/STILL), the digital still image is output while the VCR is in the Still mode. If the Still mode continues for more than about 5 minutes, the recorder will enter the Stop mode, but the digital still image will continue to be displayed on the monitor.
2. To cancel the Freeze mode, press DIGITAL FREEZE again, press PAUSE/STILL or press the DIGITAL MEMORY button.

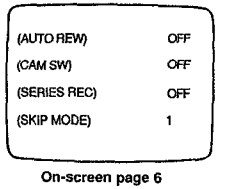
QUAD DISPLAY AND SKIP PLAY

In order to use these functions effectively, tapes must be recorded in a multi-camera system via a sequential camera switcher. Two items on the On-Screen Setup Menu must also be set correctly in recording and playback.

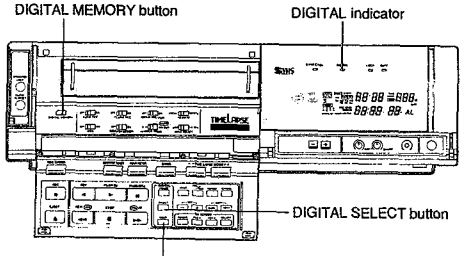
- Before recording, call up On-Screen Setup Menu page 6 and select "CAM SW". This determines the interval at which the sequential camera switcher switches from one camera to another. For effective Quad Display and Skip Play, set this item either to "1 FIELD" or "1 FRAME". ☞ p.12.
- Before playback, call up the On-Screen Setup menu page 6 and select "SKIP MODE". This determines how many fields should be skipped for continuous display of a single camera picture. Set according to the number of cameras (up to 16).

NOTE:

- These functions cannot be used when On-Screen Setup Menu item "SKIP MODE" is set to "1".
- These functions cannot be used in Timelapse Play or Field-advance. Effective only in the SP or LP mode.

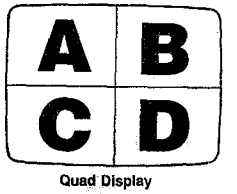


On-screen page 6



Quad Display

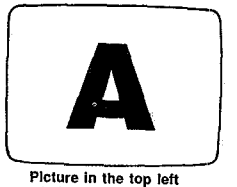
1. Press DIGITAL MEMORY and start playback.
2. Press MULTI to activate the Quad Display mode.
   - Pictures from four cameras will be simultaneously displayed in separate windows on a single screen.
   - The DIGITAL indicator will blink.
3. Press SELECT to advance the pictures through the windows.
   - When more than four cameras have been used, a new camera picture appears in the bottom right window.



Quad Display

Skip Play

1. Press MULTI while in the Quad Display mode.
   - The camera picture in the top left window is displayed successively in full-screen.
2. Press SELECT to select a different camera picture.
3. To return to the Digital Play mode, press MULTI again.



Picture in the top left window is displayed.

TROUBLESHOOTING GUIDE

POWER AND TAPE TRANSPORT PROBLEMS

Symptoms	Check points
Clock is functioning normally, but the VCR power cannot be turned on.	• Is "TIMER" displayed on the display panel? — Press the TIMER button to cancel the Timer-Standby mode.

RECORDING PROBLEMS

Symptoms	Check points
Recording will not start.	• Is the cassette loaded? • Has the cassette's safety tab been removed? — Reseal the slot with adhesive tape.
Timer recording is not possible.	• Have you set the clock and programmed the timer correctly? — Check again. • Is "TIMER" displayed on the display panel? — If not, press the TIMER button to display "TIMER".

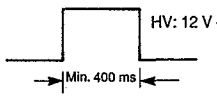
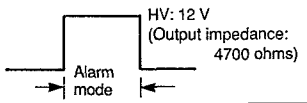
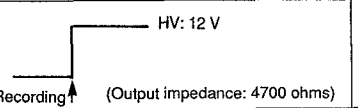
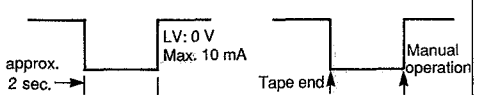
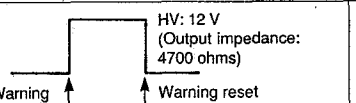
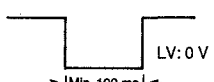
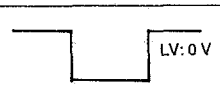
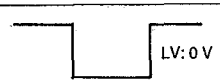
PLAYBACK PROBLEMS

Symptoms	Check points
Tape is running but there is no playback picture.	• Is the monitor's input select switch set correctly? • If you are using a TV receiver via AV connection, is it set to the "AV" mode? — If not, set it to the "AV" mode.
Noise and jitter problems.	• Refer to "TRACKING CONTROL" and "V. LOCK ADJUSTMENT" ☞ p.29.
Displayed picture of input signal changes during Quad Display or Skip Play.	• Does the setting of On-Screen Setup Menu item "SKIP MODE" match the setting used in recording? — Set it to match. • Has On-Screen Setup Menu item "SKIP MODE" been set to match the number of cameras? — Set it to match the number of cameras. • Has On-Screen Setup Menu item "CAM SW" been set to "1 FIELD" or "1 FRAME"? — Set to "1 FIELD" or "1 FRAME".

OTHERS

Symptoms	Check points
Timer setting is not possible.	• Has the clock been set? — Set the clock.
VISS Index Search does not function.	• Is the VISS switch set to ON? — Set to ON.

INPUT/OUTPUT TERMINAL SIGNAL LEVELS

Terminals	Signal level	Remark
ALARM IN		Input at ground level
ALARM OUT		Through out of input signal
ALARM RST IN		Input at high level
ALARM REC OUT		Output at high level
REC OUT		Output at high level
TAPE END OUT		Output at ground level
WARNING OUT		Output at high level
1 SHOT REC IN		Input at ground level
CLOCK RESET IN		Input at ground level
CLOCK RESET OUT		Output at ground level

RS-232C 25-PIN SERIAL REMOTE CONTROL INTERFACE (BR-S925E)

SPECIFICATIONS

Pin No.	Signal	Subject	Direction of signals
1	FG	FRAME GROUND	
2	TXD	TRANSMIT DATA	VTR → COMPUTER
3	RXD	RECEIVE DATA	VTR ← COMPUTER
6	DSR	DATA SET READY	VTR ← COMPUTER
7	GND	SIGNAL GROUND	
20	DTR	DATA TERMINAL READY	VTR → COMPUTER

Output level — ON: more than +5 V
OFF: less than –5 V

DATA FORMAT

Mode : Non-synchronised
Character length : 8 bits
Parity check : None
Stop bit : 1 bit
Data rate : 600, 1200, 2400, 4800, 9600 bps
(Selectable with DIP switch setting)

RS-232C PROTOCOL

JVC BASE TABLE

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				Data "0"	ENTER											
1	COMPLE-TION			Data "1"	CLEAR ERROR											
2	ERROR			Data "2"											COUNT RESET	
3	CASSETTE OUT			Data "3"							EJECT					
4				Data "4"												
5	NOT TARGET			Data "5"												
6				Data "6"		CLEAR										JVC TABLE 1 ON
7				Data "7"										STATUS SENSE		JVC TABLE 1 OFF
8				Data "8"												
9				Data "9"												
A	ACK			PLAY	REV PLAY								REC			REC/DUB REQUEST
B	NAK										FF		REC PAUSE			VTR INQ
C											REW					
D											F-FIELD STEP					
E																
F				STOP	STILL											

JVC TABLE 1

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	(RETURN CODE)			Data "0"	ENTER		TIMER ON	ON SCREEN ON	DIGITAL ON					FRAME CODE (COUNT)		
1	COMPLE-TION			Data "1"	CLEAR ERROR		TIMER OFF	ON SCREEN ON	DIGITAL OFF					HOUR METER SENSE		
2	ERROR			Data "2"			PRG/CLK	POS H +	DIGITAL MULTI			CUE UP WITH DATA			COUNT RESET	
3	CASSETTE OUT			Data "3"			SHIFT +	POS V +	DIGITAL FREEZE		EJECT	SEARCH (VISS)				
4				Data "4"			SHIFT –	ON SCREEN SELECT	DIGITAL SHIFT							
5	NOT TARGET			Data "5"			SET +					F-SHUTTLE				
6				Data "6"		CLEAR	SET –					R-SHUTTLE		TL STATUS SENSE		
7				Data "7"			CANCEL							STATUS SENSE		
8				Data "8"			REPEAT									
9				Data "9"												
A	ACK			PLAY									REC			REC/DUB REQUEST
B	NAK							POWER ON			FF		REC PAUSE			VTR INQ
C								POWER OFF			REW					
D								MODE SHIFT			F-FIELD STEP					
E								MODE			R-FIELD STEP					
F				STOP	STILL											

SPECIFICATIONS

GENERAL

Power requirement : AC 220 — 240 V
Power consumption : 35 W (BR-S920E), 41 W (BR-S925E)
Dimensions : 435 (W) X 124 (H) X 370 (D) mm
Weight : 10 Kg
Temperature
Operating : 5°C to 40°C
Storage : –20°C to 60°C
Operating humidity : 30% to 80%
Format : S-VHS Europe standard
Tape speed : 23.39 mm/sec (SP, TL), 11.70 mm/sec (LP)
Recording and playback time : 3 (VHS SP/S-VHS SP), 6 (VHS LP/S-VHS LP), 24, 48, 72, 120, 168, 240, 480, 960 hours (with E-180/SE-180 cassette)

VIDEO

Signal system : PAL-type colour signal/PAL-type Y/C signal, CCIR monochrome signal, 625 line/50 field
Recording system
Luminance : FM recording
Colour : Down-converted direct recording
Input
Line : 0.5 to 2.0 Vp-p, 75 ohms, unbalanced
Y/C Y : 0.5 to 2.0 Vp-p, 75 ohms, unbalanced
C : 0.3 Vp-p, 75 ohms, unbalanced (Burst)
Output
Line : 1.0 Vp-p, 75 ohms, unbalanced
Y/C Y : 1.0 Vp-p, 75 ohms, unbalanced
C : 0.3 Vp-p, 75 ohms, unbalanced (Burst)
Horizontal resolution : 400 lines (S-VHS, colour)
240 lines (VHS, colour)
300 lines (VHS, monochrome)
Signal-to-noise ratio : 43 dB (S-VHS/SP)

AUDIO

Number of tracks : 1
Input : –8 dBs, unbalanced
Output : –6 dBs, unbalanced
Frequency response : 100 Hz to 8 kHz
Signal-to-noise ratio : 40 dB (SP at 3% distortion)
Wow and flutter : Less than 0.35% RMS

TIME/DATE GENERATOR

Display : Day, month, year, hours, minutes, seconds, recording mode
Character size : 16 H
Power back up : Approx. one year

ACCESSORIES

Provided accessories : "R6/AA/UM-3" battery X 3

* For best results, use only JVC Professional S tape.

Design and specifications subject to change without notice.